

## PATENT ABSTRACTS OF JAPAN

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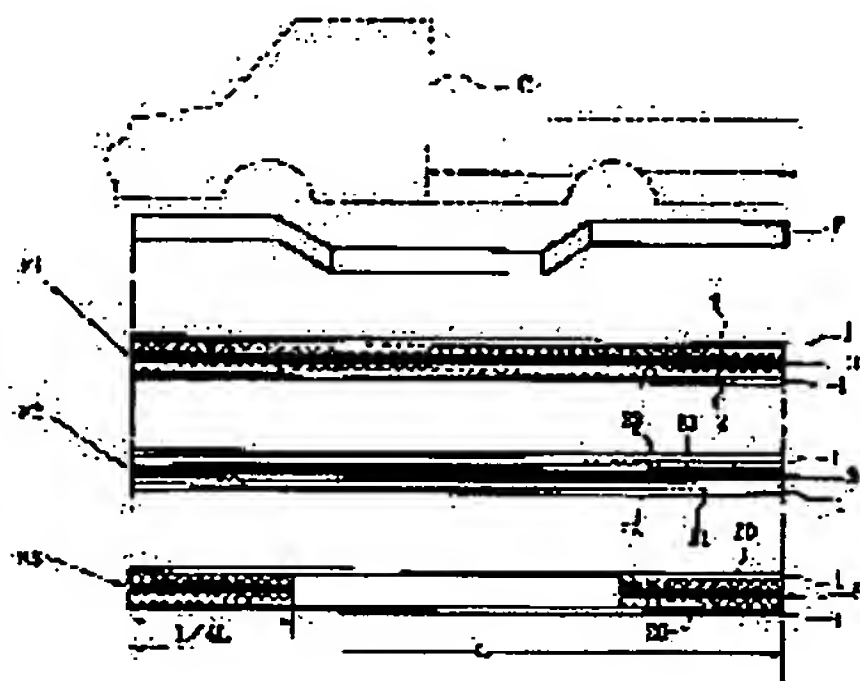
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**(54) BODY FRAME STRUCTURE**

(57)Abstract:

**PURPOSE:** To provide the vibration-proof structure of a vehicle preventing the low frequency vibration of a body and sufficiently lowering internal noise.

**CONSTITUTION:** In a lateral pair of frames F of hollow closed cross section extended in the longitudinal direction of a body, at least one of the inner surface side and outer surface side of a peripheral wall 1 forming the hollow closed cross section of the frame F is provided with a vibration damping member F1 formed by laminating an elastic material layer 2 and a mass member 3 such as iron core in order from the peripheral wall surface side. High frequency vibration is damped by the dislocation effect of the elastic material layer 2 due to its dislocation generated in relation to the peripheral wall 1 at the time of the elastic material layer 2 being deformed, and low frequency vibration, especially trembling vibration of primary bending frequency of about 20Hz, is damped by the spring-mass effect of the mass member 3.



## LEGAL STATUS

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